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1 Real-time data acquisition at mission control

John Muratore, Troy Heindel, Terri Murphy, Arthur Rasmussen, Robert McFarland
December 1990 **Communications of the ACM**, Volume 33 Issue 12
Publisher: ACM Press

Full text available: 📄 pdf(6.84 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Perhaps one of the most powerful symbols of the United States' technological prowess is the Mission Control Center (MCC) at the Lyndon B. Johnson Space Center in Houston. The rooms at Mission Control have been witness to major milestones in the history of American technology such as the first lunar landing, the rescue of Skylab, and the first launch of the Space Shuttle. When Mission Control was first activated in the early 1960s it was truly a technological marvel. This facility, however, ...

2 Abstracts for short papers: information technology: Motivations for research activity of information technology academics

Shaun Pather, Geoff Erwin
September 2002 **Proceedings of the 2002 annual research conference of the South African institute of computer scientists and information technologists on Enablement through technology SAICSIT '02**
Publisher: South African Institute for Computer Scientists and Information Technologists
Full text available: 📄 pdf(86.65 KB)   Additional Information: full citation, abstract, index terms

Higher Education in South Africa at tertiary level has been undergoing intensive investigations about restructuring by national government in the last few years. South Africa has two distinct types of tertiary educational institution: Technikon and University. South Africa is seeking to build a mixed research/teaching profile for Technikons. In January 2002, a National Working Group recommended to the National Minister of Education various mergers between institutions aimed at systemi ...

Keywords: higher education, research, technikons, universities

3 Abstracts for short papers: computation linguistics: Searching on full name providing for spelling variations

Gideon de V. de Kock
September 2002 **Proceedings of the 2002 annual research conference of the South**

**African institute of computer scientists and information technologists
on Enablement through technology SAICSIT '02**

Publisher: South African Institute for Computer Scientists and Information Technologists

Full text available: pdf(101.03 KB)   Additional Information: full citation, abstract, index terms

The term <i>full name</i> is used for a surname plus zero or more forenames (first names) of a person. Searching a large database which contains at least the full name of an individual and the date of birth, e.g. in our case a genealogical database containing about 525 000 person records, could be problematic and is discussed in this paper. The full name recorded may not be exact or complete, and dates may also not be accurate and could in some cases be estimates. The disc ...

Keywords: person database, search algorithms, search for a person, search on full name

4 Cadfiss test system computation and data flow integrated subsystem tests

W. I. Adams, P. R. Federico

January 1964 **Proceedings of the 1964 19th ACM national conference**

Publisher: ACM Press

Full text available: pdf(481.07 KB)   Additional Information: full citation, abstract, index terms

Project Mercury was the first space program to create a real time computer-centered, worldwide satellite tracking and communications network. This network is a complex of remote sites or stations having a direct, on-demand access to the Goddard Space Flight Center (GSFC) computers via various transmission linkages: teletype, submarine cable, land lines, etc. Distance between a given site and these computers ranges from less than one thousand miles on the one hand to worldwide proportions on ...

5 Alain Fournier, 1943-2000: an appreciation

Eugene Fiume

October 2000 **ACM Transactions on Graphics (TOG)**, Volume 19 Issue 4

Publisher: ACM Press

Full text available: pdf(27.37 KB)   Additional Information: full citation, abstract, index terms

Alain Fournier, 1943-2000

An Appreciation

There are thinkers of great repute and intellect who would suggest that any objective measure of humankind is in fact a mismeasure. While I am not of a mood to argue the general point either way, it certainly applies to Alain Fournier. I write this appreciation of him so that those who do not know him may be inspired to discover him, and so that those who do know him are able to reflect further on his remarkable life. I beg the reader t ...

6 Hypertext links in Lotus Notes and the World Wide Web

Kate Ehrlich, Alex Lee, Phillip Ritari

September 1995 **ACM SIGWEB Newsletter**, Volume 4 Issue 2

Publisher: ACM Press

Full text available: pdf(261.93 KB)   Additional Information: full citation, abstract, index terms

At the Digital Libraries conference in Texas in 1994 we presented a paper describing an ethnographic study of information access in a customer support organization [1]. That study revealed the highly collaborative nature of information filtering and retrieval. In particular, support analysts relied on each other to fill in anecdotal and experiential information missing from written documentation and reason through that information to solve customer problems. Colleagues also routinely shared refe ...

7 <u>User services in the Mid-Illinois Computer Cooperative</u>

Jack Thompson
November 1975 **Proceedings of the 3rd annual ACM SIGUCCS conference on User services**

Publisher: ACM Press

Full text available: pdf(133.83 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

The Mid-Illinois Computer Cooperative (MICC) was established in 1974 with the primary mission of supplying supplementary computer services for the research and instructional programs of its five member universites: Eastern Illinois University (EIU), Illinois State University (ISU), Sangamon State University (SSU), Southern Illinois University at Edwardsville (SIU-E), and Western Illinois University (WIU). MICC functions as a conventional 'star' network (see Figure 1). A Contral Data Cyber 7 ...

8 <u>Supercomputer applications: helping users cope with tough programming problems</u>

Jack Rogers
October 1988 **Proceedings of the 16th annual ACM SIGUCCS Conference on User Services**

Publisher: ACM Press

Full text available: pdf(262.68 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

Nobody ever said that Supercomputing was easy. stressed-out SDSC consultant At SDSC our mission is to provide not only supercomputer cycles, but also supercomputer support. The level of support, of course, covers a broad range. Some users just need to learn the basics: how to get their data transferred to SDSC, how to get directory listings, how to access in-house application software, etc. Other users are involved in their own code installa ...

9 <u>PRAVTA---a light-weight mobile awareness client</u>

Tom Gross
April 2001 **ACM SIGGROUP Bulletin**, Volume 22 Issue 1

Publisher: ACM Press

Full text available: pdf(1.28 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Despite huge progress in information and communication technology it is often difficult to spontaneously contact persons who are at other locations. Often important information about the persons at other sites is missing. Users need to know if the potential communication or cooperation partners are present in the system, if they are available, how busy they are, and so forth. Furthermore, users need this information independently of their current location and adapted to their current context. In ...

10 <u>Using structural characteristics for autonomous operation</u>

Carlos Baquero, Francisco Moura
October 1999 **ACM SIGOPS Operating Systems Review**, Volume 33 Issue 4

Publisher: ACM Press

Full text available: pdf(636.87 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

The majority of current mobile computing systems operate either in conjunction with a central network by some form of weak connectivity or tend to operate in total isolation and perform sporadic synchronization with a backup or a central network. These configurations miss an additional and very useful pattern of operation --- mobile to mobile interaction. Recent mobile devices have the capacity for direct communication among them, but this option is essentially neglected by the application softw ...

Keywords: conflict resolution, mobile computing, replication

11 The compiler controlled pack cache and messaging

Stanley E. Lass

July 1991 **ACM SIGARCH Computer Architecture News**, Volume 19 Issue 4

Publisher: ACM Press

Full text available: pdf(331.22 KB)   Additional Information: full citation, abstract, index terms

A compiler controlled pack cache allows the compiler to plan the allocation of the cache memory to minimize thrashing, group memory accesses, and specify strided transfers between the cache and main memory, thereby achieving a higher usable bandwidth and reducing the overall miss delay.Since it will soon be reasonable to have on-chip DRAM memories of 4 Mbits (512k bytes), a size comparable to the personal computer main memories of several years ago, the accesses to main memory will become more I ...

12 Application of clustering to estimate missing data and improve data integrity

R. C. T. Lee, J. R. Slagle, C. T. Mong

October 1976 **Proceedings of the 2nd international conference on Software engineering**

Publisher: IEEE Computer Society Press

Full text available: pdf(500.48 KB)   Additional Information: full citation, abstract, references, citings, index terms

Two problems in the use of computerized data base systems are: (1) How can we estimate the values for missing data? (2) How can we improve data integrity, that is, reduce the number of errors in the data? The tool that we introduce to attack these problems is clustering analysis. Experimental results indicate that our method is feasible. Our algorithm detected an error in the book "Weyer's Warships of the World 1969." Each of the approximately 2000 warships listed in ...

13 Current perspectives on selection testing (Panel)

Theodore C. Willoughby, William H. Enneis, Jean M. Palormo, Wayne W. Sorenson

June 1971 **Proceedings of the ninth annual SIGCPR conference**

Publisher: ACM Press

Full text available: pdf(1.05 MB)   Additional Information: full citation, abstract, citings, index terms

Today certain types of discrimination are illegal—age, sex, race and national origin. Now only valid selection devices can be used. We have assembled a knowledgeable panel to discuss the implications of this situation for managers, selection personnel and researchers. Dr. Enneis will present the government point of view. Miss Palormo will discuss the reaction of test publishers and researchers, while Mr. Sorenson will bring in the viewpoints of the personnel man who is out on the firi ...

14 Proposing resident user-cycles in personal computers

Peter Schulthess, Jiri Hoppe

August 1982 **Proceedings of the 5th ACM SIGSMALL symposium on Small systems**

Publisher: ACM Press

Full text available: pdf(439.68 KB)   Additional Information: full citation, abstract, references, index terms

Most people using a personal computer work according to a cyclical pattern. A program developer for instance will repeatedly execute and load the functions EDIT, COMPILE and EXECUTE from secondary storage. The efficiency of this user-cycle critically depends on the performance of the channel to secondary storage. However, if all programs required during one user cycle can be kept in local main memory then the local disk can be omitted and even a medium speed local area network will be adequ ...

15 Short talks-Specialized section: emotion: Co-experience: the social user experience

Katja Battarbee

April 2003 **CHI '03 extended abstracts on Human factors in computing systems**
Publisher: ACM Press
Full text available: pdf(142.43 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

This paper presents a critical view of existing models of user experience. These models view experience as the subjective response in the individual's mind. While designers and developers have to try to provide a satisfying user experience, the means to do so remain limited. This paper presents a missing aspect of user experience. Experience can be seen as an individual's reaction, but also as something constructed in social interaction. Designed artifacts, especially personal communication and ...

Keywords: computer mediated communication, emotion and affective UI, entertainment, ethnography, hand held devices and mobile computing, industrial design, interaction design, social computing and social navigation, user studies and fieldwork

16 Invited papers: EyeTap technology for wireless electronic news gathering ■
Steve Mann, James Fung, Eric Moncrieff
October 1999 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 3 Issue 4
Publisher: ACM Press
Full text available: pdf(1.39 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>

The results of actual field tests of a new class of Personal Imaging systems, the Electronic News Gathering WearComp (ENGwear), are presented. These incorporate EyeTap Technology to cause the eye itself to function as if it were a camera, and to allow the eye to be wirelessly tapped out of and tapped into, capturing exactly what the user is viewing. This brings the point of view of the camera to the same point as the user's eye, and also allows the user to allow others to wirelessly modify his/h ...

17 Student technology fellows program: teaching teachers the technology ■
Allan R. Jones
November 2002 **Proceedings of the 30th annual ACM SIGUCCS conference on User services**
Publisher: ACM Press
Full text available: pdf(100.08 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

Universities are facing a dearth of technology-trained persons to assist with the increased use of technology in the classroom or for course delivery. Several programs have been tried in South Dakota to alleviate this pending crisis. There have been faculty awards for teaching with technology, technical training through internal reinvestments, and peer mentorships, to mention a few. These incentives and training have resulted in a large number of faculty exploring new skills in the classroom. Th ...

Keywords: faculty development, student management, teaching, technology

18 Merging IT training with academia ■
Joleen Pfefer
November 2002 **Proceedings of the 30th annual ACM SIGUCCS conference on User services**
Publisher: ACM Press
Full text available: pdf(172.02 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

The University of Missouri - Columbia (MU) has a student population of approximately 23,000. Since undergraduates arrive at MU with varying degrees of computer literacy and experience, the Committee on Undergraduate Education (CUE) and Information and Access Technology Services (IAT Services) partnered to develop a new computer proficiency (CP)

requirement for undergraduate students. Computer proficiency will become part of the General Education Program's graduation requirement from MU.This pape ...

Keywords: academia, proficiency requirements, students, training and development, web-based training

19 Uncovering expectations of web site visitors and building a site that makes discovering IT easy
Warren Mayer, Todd Krupa
November 2002 **Proceedings of the 30th annual ACM SIGUCCS conference on User services**
Publisher: ACM Press
Full text available: pdf(654.80 KB)   Additional Information: full citation, abstract, references, index terms

Two years after transforming its World Wide Web presence and publishing process, Information & Access Technology Services at the University of Missouri-Columbia embarked on developing and publicly documenting another online redesign: the evolution from a "best guess" to "can't miss" site.Armed with 24 months of use data and feedback from surveys and focus groups, IAT Services was able to combine known strengths of the 2000 site and develop solutions from suggestions for the 2002 site. The entire ...

Keywords: Web site, accessibility, advertising, computing, customer service, design, document management, focus groups, graphic design, information technology, news, online information, personalized web content, print publications, statistical reporting, telecommunications, usability, user guides, user interface

20 Accepted Posters: Information filtering using bayesian networks: effective user interfaces for aviation weather data
Corinne Clinton Ruokangas, Ole J. Mengshoel
January 2003 **Proceedings of the 8th international conference on Intelligent user interfaces**
Publisher: ACM Press
Full text available: pdf(1.09 MB)   Additional Information: full citation, abstract, references, index terms

Weather is a complex, dynamic process with tremendous impact on aviation. While pilots often have access to large amounts of aviation weather data, they find it difficult and time-consuming to identify weather hazards, due to the sheer amount and cryptic formatting of the data. To address this challenge, we have developed information filtering concepts based on a unified Bayesian network model, integrating text and graphical weather data in the context of specific mission, equipment and personal ...

Keywords: bayesian models, bayesian networks, data filtering, information management, intelligent visualization, situation awareness

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                                                         Volume 37, Issue 2, Feb. 2000 Page(s):41 - 48
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